

# Missouri Department of Natural Resources



## PUBLIC NOTICE

### DRAFT MISSOURI STATE OPERATING PERMIT

DATE: July 21, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, Missouri 65102, ATTN: NPDES Permits and Engineering Section / Permit Comments. **Please include the permit number in all comment letters.**

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curd v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by August 21, 2006 or received in our office by 5:00 p.m. on August 24, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/index.html>, or at the Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, Missouri 65102, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: July 21, 2006

Permit Number: MO-0110051

Southeast Regional Office

**FACILITY NAME AND ADDRESS**

**Facility Name:** GS Roofing Products, Inc. Gads Hill  
**Facility Address:** Highway 49 North, Route 2, Box 307,  
Piedmont, MO 63957

**NAME AND ADDRESS OF OWNER**

**Owner:** GS Roofing Products Company, Ins.  
**Address:** 750 East Swedesford Road, Valley Forge, PA 19482

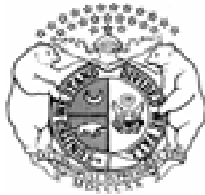
**RECEIVING STREAM & LEGAL DESCRIPTION**

See Permit

**TYPE OF DISCHARGE**

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

|                                 |  |
|---------------------------------|--|
| Permit No.                      | MO-0110051   |
| Owner:                          | GS Roofing Products Company, Ins.                      |
| Address:                        | 750 East Swedesford Road, Valley Forge, PA 19482-0101  |
| Continuing Authority:           | Same as above  |
| Address:                        | Same as above  |
| Facility Name:                  | GS Roofing Products, Inc. Gads Hill                    |
| Facility Address:               | Highway 49 North, Route 2, Box 307, Piedmont, MO 63957 |
| Legal Description:              | See page 2   |
| Latitude/Longitude:             | See page 2   |
| Receiving Stream:               | See page 2   |
| First Classified Stream and ID: | See page 2   |
| USGS Basin & Sub-watershed No.: | See page 2   |

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

See page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

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Effective Date

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Doyle Childers, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

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Expiration Date  
MO 780-0041 (10-93)

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Edward Galbraith, Director of Staff, Clean Water Commission

**LEGAL DESCRIPTION** (continued)

Outfall #001: SE ¼, NE ¼, Sec. 34, T30N, R3E, Wayne County  
Latitude/Longitude: +3714115/-09041587

Outfall #002: SW ¼, SE ¼, Sec. 34, T30N, R3E, Wayne County  
Latitude/Longitude: +3713538/-09042176

Outfall #003: Eliminated. Routed to Outfall #002

Outfall #004: NE ¼, SW ¼, Sec. 35, T30N, R3E, Wayne County  
Latitude/Longitude: +3714067/-09041310

Outfall #005: NE ¼, NW ¼, Sec. 35, T30N, R3E, Wayne County  
Latitude/Longitude: +3714269/-09041283

**RECEIVING STREAM, BASIN, AND RIVER REACH** (continued)

Outfalls #001 & #002

Unnamed Tributary to McKenzie Creek (U)  
McKenzie Creek (C) (02787) 303(d) list  
(11010007-060001)

Outfall #004

Unnamed Tributary to Peachtree Fork (U)  
Peachtree Fork (C) (02937)  
(08020202-050001)

Outfall #005

Unnamed Tributary to Big Creek (U)  
Big Creek (P) (02916)  
(08020202-040003)

**FACILITY DESCRIPTION** (continued)

Outfall #001 - Quarry - SIC #1423

Settling basin/storm water runoff/process water/oil water separator.  
Design flow is 2.5 MGD.  
Actual flow is dependent upon rainfall.

Outfalls #002 & #004 - Quarry - SIC #1423

Storm water runoff/groundwater seepage.  
Design flow is 4,320 gallons per day for outfall #004.  
Design flow is 8,640 gallons per day for outfall #002.  
Actual flow is dependent upon rainfall.

Outfall #005 - Quarry - SIC #1423

Storm water runoff/ballast washing.  
Design flow is 4,320 gallons per day.  
Actual flow is dependent upon rainfall.

| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS  |         |                            |                   |                    | PAGE NUMBER 3 of 5       |                    |
|--|---------|----------------------------|-------------------|--------------------|--------------------------|--------------------|
| PERMIT NUMBER MO-0110051   |         |                            |                   |                    |                          |                    |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |         |                            |                   |                    |                          |                    |
| OUTFALL NUMBER AND EFFLUENT<br>PARAMETER(S)  | UNITS   | FINAL EFFLUENT LIMITATIONS |                   |                    | MONITORING REQUIREMENTS  |                    |
|  |         | DAILY<br>MAXIMUM           | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE     |
| <u>Outfall #001</u> (Note 1)<br>Flow   | MGD     | *                          |                   | *                  | once/quarter**           | 24 hr.<br>estimate |
| Settleable Solids  | mL/L/hr | 1.5                        |                   | 1.0                | once/quarter**           | grab               |
| Oil and Grease   | mg/L    | 15                         |                   | 10                 | once/quarter**           | grab               |
| pH - Units   | SU      | ***                        |                   | ***                | once/quarter**           | grab               |
| Rainfall   | inches  | *                          |                   | *                  | once/quarter**           | grab               |
| <u>Outfalls #002 &amp; #004</u><br>Flow  | MGD     | *                          |                   | *                  | once/quarter**           | 24 hr.<br>estimate |
| Settleable Solids  | mL/L/hr | 1.5                        |                   | 1.0                | once/quarter**           | grab               |
| pH - Units   | SU      | ***                        |                   | ***                | once/quarter**           | grab               |
| <u>Outfall #005</u><br>Flow  | MGD     | *                          |                   | *                  | once/quarter**           | 24 hr.<br>estimate |
| Total Suspended Solids   | mg/L    | 30                         |                   | 15                 | once/quarter**           | grab               |
| Oil and Grease   | mg/L    | 15                         |                   | 10                 | once/quarter**           | grab               |
| pH - Units   | SU      | ***                        |                   | ***                | once/quarter**           | grab               |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.  |         |                            |                   |                    |                          |                    |
| B. STANDARD CONDITIONS   |         |                            |                   |                    |                          |                    |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.  |         |                            |                   |                    |                          |                    |

MO 780-0010 (8/91)

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS** (continued)

- \* Monitoring requirement only.
- \*\* Sample once per quarter in the months of March, June, September, and December.
- \*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

Note 1 - Other than the Settleable Solids exemption, all monitoring requirements will remain in effect at all times; however, any increased discharge or overflow caused by precipitation within any 24-hour period greater than the 10-year, 24-hour rainfall event (or snowmelt of equivalent volume), shall comply with the following limitations:

| OUTFALL NUMBER AND EFFLUENT<br>PARAMETER(S)      | UNITS   | FINAL EFFLUENT LIMITATIONS |                   |                    | MONITORING REQUIREMENTS  |                |
|--|---------|----------------------------|-------------------|--------------------|--------------------------|----------------|
|  |         | DAILY<br>MAXIMUM           | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| <u>Effluent Limitations During Precipitation</u> |         |                            |                   |                    |                          |                |
| Settleable Solids                                | mL/L/hr | *                          |                   | *                  | per event                | grab           |

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

  - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    - (1) One hundred micrograms per liter (100 µg/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
5. Report as no-discharge when a discharge does not occur during the report period.
6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (e) There shall be no significant human health hazard from incidental contact with the water;
  - (f) There shall be no acute toxicity to livestock or wildlife watering;
  - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS (continued)

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
  - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
  - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids that are removed from the domestic wastewater treatment lagoon during lagoon clean-out and maintenance activities. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

# WATER QUALITY REVIEW SHEET

## Determination of Effluent Limits

### Facility Information

Facility Name: GS Roofing Products Company, Inc. NPDES#: MO-0110051

Facility Type/Description: Quarrying rock used for shingles and aggregate

8 – Digit Huc: 11010007 County: Wayne

Legal Description: Sec 34 and 35, T30N, R3E

Latitude/Longitude: +3714115/-09041587

### Outfall Characteristics

| Outfall | Design Flow (Cfs) | Treatment Type | Receiving Waterbody         | Main Contaminant of Concern |
|---------|-------------------|----------------|-----------------------------|-----------------------------|
| 001     | 3.9               | Settle Basin   | Tributary to McKenzie Creek | Solids                      |
| 002     | 0.013             | None           | Tributary to McKenzie Creek | Solids                      |
| 003     | Eliminated        |                |                             |                             |
| 004     | 0.013             | Settle Pond    | Tributary to Peachtree Fork | Solids                      |
| 005     | 0.006             | Settle Pond    | Tributary to Big Creek      | Solids                      |
|         |                   |                |                             |                             |

### Receiving Waterbody Information

| Waterbody      | Class | 7z10 (Cfs) | *Designated Uses   | Other Characteristics |
|----------------|-------|------------|--------------------|-----------------------|
| McKenzie Creek | C     | 0          | LWW, AQL           | 303d list             |
| Peachtree Fork | C     | 0          | LWW, AQL           |                       |
| Big Creek      | P     | 0.1        | LWW, CLF, WBC, BTG |                       |
|                |       |            |                    |                       |

\*\* Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery (CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND)

### Permit Limits and Information

#### OUTFALL #001

WET TEST (Y OR N): ☒ N FREQUENCY: \_\_\_\_\_ AEC: \_\_\_\_\_ METHOD: \_\_\_\_\_

| PARAMETER        | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MONITORING FREQUENCY |
|------------------|---------------|----------------|-----------------|----------------------|
| FLOW             | REPORT        |                | REPORT          |                      |
| SETTLABLE SOLIDS | 1.5           |                | 1.0             |                      |
| OIL AND GREASE   | 15            |                | 10              |                      |
| pH               | 6-9           |                | 6-9             |                      |
| RAINFALL         | REPORT        |                | REPORT          |                      |



**OUTFALL #002 and #004**WET TEST (Y OR N): ☒ N FREQUENCY: \_\_\_\_\_ AEC: \_\_\_\_\_ METHOD: \_\_\_\_\_

| PARAMETER         | DAILY<br>MAXIMUM | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MONITORING<br>FREQUENCY |
|-------------------|------------------|-------------------|--------------------|-------------------------|
| FLOW              | REPORT           |                   | REPORT             |                         |
| SETTLEABLE SOLIDS | 1.5              |                   | 1.0                |                         |
| pH                | 6-9              |                   | 6-9                |                         |

**OUTFALL #005**WET TEST (Y OR N): ☐ FREQUENCY: \_\_\_\_\_ AEC: \_\_\_\_\_ METHOD: \_\_\_\_\_

| PARAMETER              | DAILY<br>MAXIMUM | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MONITORING<br>FREQUENCY |
|------------------------|------------------|-------------------|--------------------|-------------------------|
| FLOW                   | REPORT           |                   | REPORT             |                         |
| TOTAL SUSPENDED SOLIDS | 30               |                   | 15                 |                         |
| OIL AND GREASE         | 15               |                   | 10                 |                         |
| pH                     | 6-9              |                   | 6-9                |                         |

**OUTFALL #001 and #002, 10 year 24 hour rainfall exemption**WET TEST (Y OR N): ☐ FREQUENCY: \_\_\_\_\_ AEC: \_\_\_\_\_ METHOD: \_\_\_\_\_

| PARAMETER         | DAILY<br>MAXIMUM | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MONITORING<br>FREQUENCY |
|-------------------|------------------|-------------------|--------------------|-------------------------|
| SETTLEABLE SOLIDS | *                |                   | *                  |                         |
|                   |                  |                   |                    |                         |
|                   |                  |                   |                    |                         |
|                   |                  |                   |                    |                         |

Total Suspended Solids (TSS) and Settleable Solids – Limits carried over from previous permit.pH – pH shall be maintained in the range from six to nine(6-9) standard units [10 CSR 20-7.015 (8)(B)2.]Oil and Grease – Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.

Reviewer: Tim Stallman  
Date: 6/21/06  
Unit Chief: Refaat Mefrakis

Monitoring and effluent limits contained within this document have been developed in accordance with EPA guidelines using the best available data and are believed to be consistent with Missouri's Water Quality Standards and Effluent Regulations. If additional water quality data or anecdotal information are available that may affect the recommended monitoring and effluent limits, please forward these data and information to the author.